

Medical Tribune

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world news of medicine and its practice — fast, accurate, complete

and Medical News

Wednesday, January 15, 1975

making rounds at press time

REVISED REPORT on X-ray exposure, to be published in the Bureau of Radiological Health Bulletin in February or March, will show more than 50 per cent reduction in prior estimates of "gonadal and testicular significance" of exposure levels, according to John C. North, Bureau director. The estimates of 55 millirads in 1964 and 30 in 1970 were based on errors in dose model and computer program, he said.

BOSTON HOSPITAL MERGER—Three major Harvard teaching hospitals have merged to form one hospital corporation to be known as Affiliated Hospitals Center. Merging are Boston Hospital for Women, Peter Bent and Robert B. Brigham Hospitals. New center, to be built on parking lot adjacent to PBB, will have 640 acute beds, 40 skilled nursing and rehab beds.

INFLUENZA DEATHS may rise to an "order of magnitude" of 200-400 excess cases per week this winter, according to the Center for Disease Control. This tentative prediction is based on confirmed outbreaks in Georgia, western Tennessee, northern Michigan and eastern New York. Dr. Charles Hoke, CDC Medical Epidemiologist, said the disease incidence is still "geographically sporadic", but if the disease pattern follows that of the epidemic winter, 1971-72, weekly deaths could go into the excess-of-400 range for 6 to 8 weeks.

RETIRING TO N. CAROLINA—Dr. Adrian H. Scolten of Portland, Me., who once ran against Margaret Chase Smith for U.S. Senator, and was an early advocate of 50-mph speed limit. He is now 83.

Massive Glucose Shown Lifesaving in Shock

By NATHAN HORWITZ

Medical Tribune Staff

DALLAS—Massive infusions of glucose have consistently prevented death from endotoxin shock in a series of experimental studies, the American Heart Association was told here.

In what is believed to be the first demonstration of the lifesaving efficacy of glucose in shock, a University of Oklahoma team reported that in two series of controlled studies, dogs that received continuous glucose infusions after intravenous administration of le-

thal doses of E. coli endotoxin "all survived," while most untreated animals died.

Even when glucose infusions were started after the animals became severely hypoglycemic, the treated group survived, "but no animal survived that did not receive exogenous glucose," said Leonard B. Hinshaw, Ph.D., Research Professor of Surgery and Professor of Physiology and Biophysics.

In detailing the findings, Dr. Hinshaw said the glucose studies were started following his team's unexpected observation that hypoglycemia devel-

oped in most animals during the later stages of endotoxin shock.

"In all experimental shock studies hitherto, all of the animals died. We asked ourselves what would happen if we simply infused glucose during the shock state and gave just enough to keep up with the animal's requirements," Dr. Hinshaw related.

Thirty-five anesthetized animals received I.V. infusions of E. coli endotoxin (1.0-1.5 mg./kg.). The animals were evaluated for an initial five-hour period and all survivors were observed

Continued on page 12

Resignations Renew Call for Fed. Health Dept.

Medical Tribune Staff

WASHINGTON—The resignation of two of the nation's top health officials within one week has brought renewed calls for an independent federal Department of Health and an end to the "politicization of science."

The demands came from Nobelists, inventors and medical leaders after Dr. Charles C. Edwards, Assistant Secretary of Health and Robert S. Stone, Director of the National Institutes of Health, announced here that they were leaving their posts. Dr. Stone's resignation is the second from the NIH top spot in 18 months.

"The turnstile tenure of those in top positions in the nation's health programs emphasizes the need for a separate National Department of Health, independent of the Department of Health, Education and Welfare," said Dr. Stone.

Continued on page 35

10-20-Year Pacemaker



A new, smaller pacemaker, rechargeable from the outside of the body for 10 to 20 years, has been developed at Johns Hopkins University. It was four-year-old Jennifer Smith, who gets her pacemaker recharged by her mother.

Controversy Continuing Over XYY Screening

Medical Tribune Staff

BOSTON—Despite a Harvard Medical School committee's conclusion that a program screening newborn boys for chromosome abnormalities should be continued, criticism of the ethics and good scientific practice of the project has not let up.

Critics of the project called the recommendation from the Standing Com-

Continued on page 6

Adriamycin Combination Gets 55% Sarcoma Response Rate

By FRANCES GOODNIGHT

Medical Tribune Staff

HOUSTON—"Encouraging results" in patients who have metastatic soft-tissue and bony sarcomas are being achieved by treatment with adriamycin

in combination with other anticancer drugs, Dr. Jeffrey A. Gottlieb reported here.

Dr. Gottlieb, chief of the chemotherapy service at the University of Texas M.D. Anderson Hospital and Tumor Institute, said that the most successful combination tried so far at his center, in collaboration with other institutions of the Southwest Oncology Group, has been adriamycin, cyclophosphamide, imidazole carboxamide (DIC), and vincristine.

This four-drug regimen produced an over-all response rate of 55 per cent in 136 patients having various types of sarcoma, the investigator told a clinical conference sponsored by Anderson Hospital and the American Cancer Society. Complete remissions occurred in 14 per cent.

By comparison, the over-all response rate for adriamycin alone has been 31 per cent, while adriamycin-DIC and adriamycin-DIC-vincristine each yielded an over-all response rate of 42 per cent, with complete response rates of 11 per cent and 9 per cent, respectively.

Survival times have also improved

Continued on page 29

In Infection Control Today (page 13)

Don't miss—

• Upward mobility of the anaerobes: from symbiosis to parasitism in the respiratory tract

And are you also missing endocarditis?

• Staph pneumonia—tip of the iceberg. Another in our exclusive "My Most Difficult Infection" series.

Compare notes—

• With three specialists who discuss:

How I Treat Otitis Media

Keep up with the latest—

• on respiratory failure and on hypogammaglobulinemia:

In our On the Infection Front

The Pseudo-ulcer



REC. NO. 14714
CLASS. 401
DATE FEB 04 1978

Ulcer-like symptoms: no G.I. pathology

The patient is convinced it's an ulcer. However, symptoms are not quite typical, and x-ray findings are negative. These findings and the results of additional diagnostic procedures exclude an organic basis for the patient's complaints. A diagnosis of "upper functional gastrointestinal disorder" is made, which is supported by the fact that episodes of painful symptoms coincide with episodes of excessive anxiety, as indicated by the history.

It may be useful to explain to the patient the mechanism by which emotions upset normal G.I. functioning, resulting in hypersecretion and hypermotility and thus causing such symptoms as nausea and epigastric pain. In upper functional gastrointestinal disorders, counseling by the primary physician can often help the patient to understand how excessive anxiety may cause flare-ups of G.I. symptoms.

A disproportionate number of patients seen by the general practitioner suffer from functional disorders, as do more than half of those seen by the gastroenterologist.* Where milder cases may respond to counsel-

ing alone, if symptoms are severe and disabling to any degree, a mild regimen may include medication to reduce the symptoms and the excessive anxiety that often provokes these distressing symptoms. In these cases, Librax as an adjunct can greatly contribute to the course of therapy. Its dual action can offer relief of both painful symptoms and excessive anxiety, because each capsule contains 5 mg chloridazepoxide HCl and 2.5 mg cimetidine Br. The anti-anxiety

among drugs for certain gastrointestinal disorders associated with excessive anxiety: the cimetidine bromide (Quarzan™) component furnishes dependable anticholinergic-antispasmodic action. Dosage is flexible; it may be adjusted according to your patient's requirements within the range of 1 or 2 capsules three or four times daily, up to 8 capsules daily in divided doses.

*Rome HP, Brannick TL. Orientation and mechanism of functional disorders: clinical-pathologic correlation, chap. 153, in *Gastroenterology*, edited by Becker H, Philadelphia, WB Saunders Company, 1965, p. 1116

An adjunct in anxiety-related upper functional G.I. disorders

Each capsule contains 5 mg chloridazepoxide HCl and 2.5 mg cimetidine Br.

pregnancy, lactation, or in women of childbearing age requires that its potential benefits be weighed against its possible hazards. As with all anticholinergic drugs, an inhibiting effect on lactation may occur.

Precautions: In elderly and debilitated, limit dosage to smallest effective amount to preclude development of ataxia, dizziness, or confusion (not more than two capsules per day initially; increase gradually as needed and tolerated). Though generally not recommended, if combination therapy with other psychotropic agents is indicated, carefully consider individual pharmacologic effects, particularly in use of potent sedative drugs such as MAO inhibitors and phenothiazines, hepatic function. Paradoxical reactions in presence of renal or hepatic impairment (e.g., excitement, delirium) have been reported. Patients with evidence of impending depression, suicidal tendencies, or on blood coagulation have been reported very rarely following discontinuation of the drug and oral anticoagulant. Adverse Reactions: No side effects or manifestations not seen with either compound alone have been reported with Librax. When chloridazepoxide hydrochloride is used alone, drowsi-

ness, dizziness, and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by at the lower dosage ranges. In a few instances, however, severe reactions have been reported. Also encountered are isolated instances of skin and conjunctival edema, minor menstrual irregularities, nausea and vomiting, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with that activity may appear during or after treatment; blood dyscrasias (including agranulocytosis, leukopenia and hepatic dysfunction) have been reported occasionally with chloridazepoxide hydrochloride, making periodic blood counts and urinalysis function tests advisable during prolonged therapy. Adverse effects reported with Librax are typical of anticholinergic agents, i.e., dryness of mouth, blurring of vision, urinary hesitancy and constipation. Constipation has occurred, especially in elderly patients, and/or for treatment dose.

Roche Laboratories
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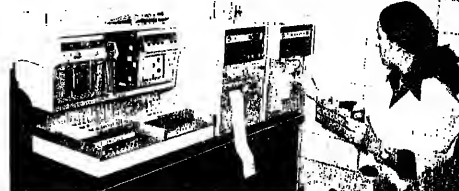
Serum-Lipids Mass Screening Test Devised

DALLAS—A simple, rapid and inexpensive mass screening test to detect total serum lipids in casual samples of blood from non-fasting subjects has been developed by teams of investigators at Rockefeller University and Albert Einstein College of Medicine, New York.

The test, based on a simplified version of the heparin precipitation method, has proved reliable in primary screening of 126,085 apparently healthy subjects, according to Dr. William Insull, Jr., associate director of the Center for Prevention of Premature Atherosclerosis, Rockefeller University.

The procedure's simplicity is such that one technician, using automated equipment, can analyze from 600 to 1,200 samples a day, employing reagents costing less than one cent per test. Dr. Insull told the annual meeting of the American Heart Association. A single technician, he reported, was responsible for analyzing the entire series of more than 126,000 subjects in the first year and identifying 6,117 persons with high serum lipoprotein levels.

Followup examination of the high-lipid subjects by traditional methods, the investigator said, showed that 10 per cent had hypercholesterolemia, 36 per cent hypertriglyceridemia, and 26 per cent hyperlipidemia. Twenty-seven



The new test to detect total serum lipids in blood samples from non-fasting subjects allows one technician, using automated equipment, to analyze from 600 to 1,200 samples a day, employing reagents costing less than 1 cent per test.

per cent had serum lipids within normal limits, defined as cholesterol and triglyceride levels within the limits seen in all except the upper five per centiles of the population.

Turbidity Readily Assayed

The heparin turbidity test, developed by the Einstein group, measures the lipid suspension formed by the reaction of serum lipoproteins to heparin and calcium chloride. The degree of turbidity is proportional to the level of lipoproteins and is readily assayed by a spectrophotometer. The test was developed by Drs. Meyer Burstein, Howard A. Eder and Harold R. Scholnick of Albert Einstein. The latter two

also collaborated in the screening study of the simplified version of the method.

Dr. Insull commented that the new test offers results "comparable to those obtained for other populations using traditional methods."

"This test makes practical the routine and inexpensive screening of large numbers of apparently healthy subjects to detect those with high serum lipid levels and an increased risk of coronary heart disease—persons for whom treatment may be instituted before clinical disease develops."

Other collaborators were Dr. Robert L. Hirsch of the New York Blood Center, and Elaine Barzallat of Rockefeller University. N.H.

Leukemia Therapy Unneeded After 3 Years

SAN FRANCISCO—Continuance of maintenance therapy after three years in children who have had acute leukemia does not appear to affect the status of the patients, a Minnesota study has shown.

Dr. Mark Nesbit of the University of Minnesota Hospitals reported here on a small series in which six of eight patients first treated in 1967, but receiving no maintenance therapy after three years, are still alive and well, while four of seven patients who received continued therapy are still alive.

Dr. Nesbit noted that despite extended survivals, leukemia is not "cured." Leukemia can only be considered "cured" when the survival rate for leukemia patients is parallel to the normal survival rate, he said.

He told members of the American Academy of Pediatrics meeting here that physicians miss the diagnosis in 10-15 per cent of leukemic children.

Great Variations

Also, he continued, 10 to 15 per cent of all leukemia cases are a morphological type resistant to therapy, to 15 per cent of the children will die of drug-induced or treatment-induced myelodysplasia, and 50 per cent will survive for five years with some small percentage of those "cured."

He suggested that the great variations are due to the fact that leukemia is not a single disease but a number of morphologically different diseases. It is important to distinguish among these, he reminded, to give the best possible therapy.

Reliable diagnosis can not be made on the basis of the initial white count,

since 75 per cent of the children will have a white count below 20,000, he said.

The physician should be alert to other signs and symptoms, such as headache and bone pain, he cautioned. In fact, all children with a diagnosis of rheumatoid arthritis should have a bone marrow aspiration to be sure the pain is not due to leukemia.

In terms of treatment, he continued, prednisone, vincristine and L-asparaginase give a high remission rate in acute lymphoblastic leukemia, but have no effect in acute myelogenous leukemia.

Damunorubicin and cytosine arabinoside, he said, give a similar remission rate in both types.

The greatest problem in the 50 per cent who do not survive five years, Dr. Nesbit observed, is neurological involvement secondary to acute leukemia, and pre-treatment for this complication is indicated.

Dr. Nesbit cautioned that complications arising from drug therapy for leukemia can at times be more life-threatening than the disease itself.

As an example he noted that methotrexate, "the mainstay of maintenance," is associated with hepatic fibrosis and pulmonary disorders, as well as gastrointestinal ulceration. Early hepatic

changes are reversible, but chronic changes which can occur after two years are irreversible. Pulmonary disease in which the Pneumocystis organism is involved is life threatening, he said, with patient mortality 50 per cent even with treatment.

Drug therapy should be discontinued when there is evidence of serious or im-

mune impairment, or when it is no longer necessary, he said.

In a related presentation, Dr. Barbara Jones of the West Virginia University School of Medicine attributed increased survival in childhood leukemia to the availability of new drugs, the use of combinations of drugs, and to early treatment of the central nervous system.

Measuring Leukemia Up

With increasing survival, the incidence of meningeal leukemia has increased to 50 or 60 per cent, she observed, a finding which suggests that small numbers of leukemic cells are present in the central nervous system from the beginning.

Prophylactic therapy with a combination of intrathecal methotrexate and cranial radiation, or with craniospinal radiation alone, appears to significantly reduce the relapses due to central nervous system involvement, she said.

CNS treatment is toxic, Dr. Jones acknowledged, noting, however that "the overall toxicity is not severe enough to outweigh its marked advantage."

ECTOPIC BEAT

The A.M.A. in *American Medical News*, announced "six new, exciting A.M.A. educational opportunities in six fantastic settings." The fifth on was listed as "Peru-Chili-Brazil" and that's what we call a really fantastic setting. If a little on the hot side.

(Hospital beats *Neurologic Medicine*, page 26.)

index

CLINICAL NEWS NOTE: "Right now, it's almost as if anyone wanting to do an investigation automatically must be thought to be unethical, and from that point on he must prove himself ethical." (Dr. Stanley Walzer, see pg. 6.)

Medicine: pgs. 1, 3, 12, 29, 35, 39

Invasive glucose prevents deaths in endotoxic shock dogs 1

Adriamycin combination encouraging in metastatic sarcomas 1

Mass screening now possible in serum lipid profiles 3

Mitral valve calcification seen in sub-nortie stenosis 29

Skilling club for blind developed by blind Swiss physiotherapist 39

Surgery: pgs. 1, 3, 6

Neuroleptic analgesia used in open heart surgery with good results 39

Pediatrics: pgs. 1, 3, 6

Controversy continues over Harvard XYY screening program 1

Leukemia therapy continuance after three years does not affect patients' status 3

Ob/Gyn: pgs. 1, 6

Some questions and answers about the XYY karyotype 6

Medical Education: pgs. 1, 3, 6

On exam substituted for written one in U. Miami surgery 33

feature index

Editorials 12

Letters to Tribune 11

Corrections 11, 39

One Man 33

Economic Analysis 33

Medicine on Stamps 39

Immature Medals 39

Sports Report 39

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Report on XYY Screening Held Whitewash

Continued from page 1
mittes on Medical Research a "whitewash."

In a report to the faculty, the committee stated that, in its opinion, Dr. Stanley Walzer, Assistant Professor of Psychiatry at Harvard, has behaved ethically and sensitively in the way in which he has conducted his

See Editorials, Page 11.
Also, One Man . . . and Medicine, Page 33.

program of examining the incidence of extra "Y" and "X" chromosomes in newborn boys, and studying the correlation, if any, of the abnormalities with behavior.

Because several of its members were concerned that the possible risks of the study might outweigh its benefits, the Harvard committee also announced that it has asked Dr. Walzer to meet with it to discuss changes that may lessen public criticism.

Dr. Walzer, has been under fire from a group of young Boston Scientists, calling themselves Science for the People, who have charged that boys were found to have XYY chromosome abnormality will be stigmatized for life by the study for possessing what the public has come to know as the "criminal chromosome."

The spokesman for the group, Jonathan Beckwith, Ph.D., a Harvard microbiologist, said that the findings, of the Medical Research Committee, "failed to deal in any way with the substantive objections to the XYY study which we have raised."

'Simply a Whitewash'

"The present recommendations are simply a whitewash of an embarrassing situation; the objections to the study stand unanswered and a source of concern, not only within the Harvard community, but among the general public as well."

Dr. Beckwith and his colleagues—scientists from Harvard and the Massachusetts Institute of Technology—made their charges formally to the medical school last April. They have accused the study of being unscientific on the grounds that parents who are anxious about the effect of the XYY chromosome variation are bound to treat their youngsters in a negative way.

This, they say, is likely to increase the incidence of behavior problems, skewing the results of the study, and harm the child.

The study is unethical, they claim, because of the danger of stigmatizing the boy, because there is no therapy for chromosomal abnormalities, hence no clear-cut benefits to the families participating.

The group has also criticized the research project for manner in which mothers-to-be were asked to consent to the screening. Until recently, the woman was asked to sign the consent form; when she was admitted to the hospital, often when she was in labor. The form asked only for permission to test the infant. When an abnormality was found, the parents were informed and asked to participate in the study.

Since the project has been under fire, the form has been rewritten, and

now fully explains the investigation and its implications. It is given to the mother the day after the delivery and is explained by a member of the research staff.

The Boston Hospital for Women, where the work is being done, mails all the incoming patients a "Bill of Rights," which points out that she is under no obligation to participate in any study, and if asked to do so, she should consult her physician for guidance.

Since the study began in 1968, some 15,000 newborns have been screened for any chromosomal abnormality, and children exhibiting variations will be followed into their adolescence in an effort to understand the relationship between the variations and certain types of behavior development.

Similar screening programs are being conducted in Denver and New Haven, in Winnipeg and London, in Canada, and in Denmark and Scotland.

In the Boston investigation thus far, Dr. Walzer and Dr. Park Gerald, Professor of Pediatrics at Harvard, have identified 12 boys with the XYY pattern and 15 with the XXY variation. Newspaper publicity in the past incorrectly labeled the extra "Y" the "criminality chromosome," because males possessing it were found in penal-mental institutions approximately 20 times more frequently than in the general population.

In the current study, Drs. Walzer and Gerald have found that "only some" boys with either chromosome pattern have begun to exhibit behavioral difficulties; most of them, they hasten to add, "are developing into wonderful kids."

Some XYY boys "seem to be impulsive and to have difficulty in controlling themselves," Dr. Gerald re-

ported in the press conference following the research committee announcement, and, "XYY boys are prone to have speech and language difficulties, although their IQs are normal or even high."

Dr. Walzer told MEDICAL TRIBUNE that he feels chromosome screening is necessary "because you can prevent a lot of hell for these kids by diagnosing early."

"I believe that parents have a right to know of any chromosome variations and they have a right to watch their child, to make changes in his life, to enrich it anyway they can, and to help him in whatever way is possible," he said.

In Contact With Families

"In a study like this, in which you share genetic information with people, one must be available to them in the future when questions and problems may arise. This particular experimental design allows for that."

Dr. Walzer was referring to the fact that he spends two or three hours every month with each family; at this time, the child is tested and observed. He maintains that he is available for telephone consultation at any time.

This aspect of the study was also criticized by Dr. Beckwith and his group. Because the investigation includes the promise of assistance and counseling in the event that the extra chromosome results in behavior disorders, they contend that worried patients may agree to participate under duress—the offer of professional help.

Dr. Walzer, who is also senior associate in genetics at Children's Hospital Medical Center, does not agree with this assessment of the parents in the study. "It is most arrogant," he said, "to assume that parents are so

Illustrator in Air Force



Medical illustrating is not usually a career associated with the armed forces, but there are a few of these artists there. Sgt. James Raymond is one of some 25 of them assigned to the Air Force.

easily pressured that they cannot make their own decisions, and that investigators that develop such information should not be undertaken because parents cannot handle it."

"Right now, it's almost as if anyone wanting to do an investigation automatically must be thought to be unethical, and from that point on he must prove himself ethical," Dr. Walzer added.

"I know the consultation and the advice I have sought at this phase of the work, and the presentation I have made, I know that I am not unethical. I have a great sensitivity to that—that's the charge that has hurt the most."

Q. & A. Roundup of Data on XYY Karyotype

Medical Tribune Staff

Controversy has surrounded the XYY karyotype from the time early in the 1960s when geneticists first discovered that some men have this sex chromosome anomaly. If the Y is necessary for maleness—and that seems to be its only contribution—what is the effect of a double dose? Investigations have produced some light, along with a great deal of heat. Presented here, in question and answer form, is a roundup of factual information about a much-debated human condition.

How common is the XYY chromosome abnormality?

It is present in about one per 1,000 liveborn males, according to pooled data from cytogenetic surveys of newborns conducted at medical centers in this country (Boston and New Haven), Scotland, Canada, and Denmark. Of the 28,582 male babies examined, 26 had the XYY karyotype.

How does this incidence compare with that of other sex chromosome abnormalities?

The less-publicized XXY pattern occurs with approximately the same

frequency—the newborn males in the above surveys included 30 XYYs.

Sex chromosome abnormalities in liveborn females are considerably less common. For example, of the nearly 15,000 girl babies who were screened, only two had the XO complement while 13 were XXX.

The most common autosomal error —Down's syndrome—was found to 45 of the total of 43,538 newborns, or roughly one per 1,000.

What investigation first suggested an association between deviant behavior and the XYY karyotype?

In 1965, chromosome studies were made at a Scottish maximum security hospital of 315 of the 342 men housed in wings allocated to the mentally subnormal and mentally diseased. Nine of these men had the XYY pattern, thus indicating an incidence in this prison population of nearly 3 per cent.

Do later studies back up this finding?

Some do, some don't, but the current estimate based on pooled data from a number of countries is that about 2 per cent of men in penal-mental institutions are XYYs. (Fre-

quencies are lower in institutions exclusively penal or mental.) This amounts to some 20 times the pooled newborn incidence of one per 1,000.

Findings in individual studies have ranged from no XYYs among 31 mentally ill men with criminal records in Greece to 10 such men among 255 mentally subnormal men in an English security institution. Chromosome screening of about 1,100 boys in Scottish schools for problem children and another 607 older boys in institutions for delinquents identified five XYYs for an over-all incidence of about three per 1,000.

Did Richard Speck—the man convicted of killing eight Chicago nurses—have the XYY make-up?

No. An erroneous report to this effect gained wider circulation than did the subsequent correction.

A French murderer of the same era definitely was XYY, however, and his chromosome pattern became a trial issue when the court appointed a commission to evaluate findings about this chromosome aberration. One commission member was geneticist Jerome Lejeune, codiscoverer of the cause of Down's syndrome.

Dr. Lejeune testified that "the bearer of an extra chromosome is a sick man," and noted the frequency of the XYY pattern among prisoners. But he then emphasized: "There is no such thing as a born criminal. It is not a chromosome which causes the commission of a crime but an ensemble of reactions along with an absence of control."

The trial's outcome? Conviction, with no official recognition of the chromosome defense—but a lighter-than-usual sentence.

Which specific behavioral problems have been linked to the XYY make-up?

There is general agreement that those early descriptions of XYY men as "criminal" or "supermale" or abnormally "aggressive" have proved inaccurate. Even in mental-penal institutions, XYYs are not overrepresented among the men considered dangerous and violent.

Some investigators believe that the chief characteristic is increased impulsiveness. This trait, in their view, seems to be a common denominator despite differences in background or intelligence.

Do XYY men look "different"?

No. But they are, as a rule, taller than would be expected from their family pedigrees. And some surveys indicate that they are afflicted with severe acne more frequently than are XY men.

Are't institutional findings apt to be biased in some respects?

Yes. Admission procedures differ from place to place, and everyone is aware that only a small proportion of the people who commit antisocial acts wind up behind bars.

Additionally, it is thought that the tallness of the average XYY may be a factor in sentencing. Because of his size, he may be considered—perhaps unconsciously—more of a "threat" than the XY who has shown deviant behavior.

What is known about XYY males who are not in institutions?

Comparatively little, although the incidence of one per 1,000 newborn boys makes it obvious that XYYs are far from rare—and suggests that the great majority must be leading ordinary lives.

Reports from at least two surveys of noninstitutionalized men have indicated that those with an XYY karyotype did not have criminal records or

show signs of deviant behavior.

As some geneticists have commented, if all XYYs were antisocial, the world wouldn't have enough jails.

Are XYY males fertile?

A number are known to have fathered children. There is apparently only a small risk that they will have an XYY son.

What about intelligence levels?

Since most studies have been made on men in mental and/or penal institutions, findings about intelligence are bound to be skewed. Even so, the intelligence range is known to be wide—from definitely subnormal to superior. Several studies in institutions not intended specifically for the mentally retarded, however, have shown that the

average IQs of men with the XYY karyotype are lower than those of XY controls in the same setting.

Is the XYY makeup linked to endocrine or neurologic abnormalities?

Apparently not. Although some XYY men show elevated levels of hormones (including testosterone), this has been far from a consistent finding. Tests performed on XYYs and XYs in the same setting have revealed no significant differences.

The evidence for neurologic abnormalities is similarly inconclusive. Some investigators have observed tremor and other neurologic signs, for example, in XYYs in mental-penal settings, but others have not found abnormalities. Clinical epilepsy appears to be no more common among XYYs than it is

among XYs in the same

Is the boy with an XYY m risk of showing deviant be

The experts' answers range from "No" or "Yes" to "Nobody knows." Most investigators agree that XYY males in mental-penal institutions are much greater than the "ground" incidence of one per 1,000 newborn males.

But as many investigators agree, a child's behavior is influenced by numerous factors, including factors that occurred during fetal life, social class, family environment, parental supervision, genetic inheritance. Instead of insisting on nurture, they think the effect must be taken into account.

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Next in Consultation

DR. DANIEL BURDICK, Clinical Professor of Surgery, State University of New York Upstate Medical Center, Syracuse, N.Y.

... discuss what's new and important in rehabilitation of the breast cancer patient, the postoperative care and exercise program, the role of the "mastectomy volunteers" in helping the patient adjust emotionally, care of the homolateral arm, and cosmetic restoration.

Report on XYY Screening Held Whitewash

Continued from page 1
mittee on Medical Research a "whitewash."

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Dr. Walzer, has been under fire from a group of young Boston Scientists, calling themselves Science for the People, who have charged that boys were found to have XYY chromosome abnormality will be stigmatized for life by the study for possessing what the public has come to know as the "criminal chromosome."

The spokesman for the group, Jonathan Beckwith, Ph.D. a Harvard microbiologist, said that the findings of the Medical Research Committee, "failed to deal in any way with the substantive objections to the XYY study which we have raised."

'Simply a Whitewash'

"The present recommendations are simply a whitewash of an embarrassing situation; the objections to the study stand unanswered and a source of concern, not only within the Harvard community, but among the general public as well."

Dr. Beckwith and his colleagues—scientists from Harvard and the Massachusetts Institute of Technology—made their charge formally to the medical school last April. They have accused the study of being unscientific on the grounds that parents who are anxious about the effect of the XYY chromosome variation are bound to treat their youngsters in a negative way.

"This, they say, is likely to increase the incidence of behavior problems, skewing the results of the study, and harm the child."

The study is unethical, they claim, because of the danger of stigmatizing the boy, because there is no therapy for chromosomal abnormalities, hence no clear-cut benefits to the families participating.

The group has also criticized the research project for manner in which mothers-to-be were asked to consent to the screening. Until recently, the woman was asked to sign the consent form "when she was admitted to the hospital, often when she was in labor. The form asked only for permission to test the infant. When an abnormality was found, the parents were informed and asked to participate in the study."

Since the project has been under fire, the form has been rewritten and

now fully explains the investigation and its implications. It is given to the mother the day after the delivery and is explained by a member of the research staff.

The Boston Hospital for Women, where the work is being done, mails all the incoming patients a "Bill of Rights," which points out that she is under no obligation to participate in any study, and if asked to do so, she should consult her physician for guidance.

Since the study began in 1968, some 15,000 newborns have been screened for any chromosome abnormality, and children exhibiting variations will be followed into their adolescence in an effort to understand the relationship between the variations and certain types of behavior development.

Similar screening programs are being conducted in Denver and New Haven, in Winnipeg and London, in Canada, and in Denmark and Scotland.

In the Boston investigation thus far, Dr. Walzer and Dr. Park Gersl, Professor of Pediatrics at Harvard, have identified 12 boys with the XYY pattern and 15 with the XXY variation.

Newspaper publicity in the past incorrectly labeled the extra "Y" the "criminality chromosome," because males possessing it were found in penal-institutional settings approximately 20 times more frequently than in the general population.

In the current study, Drs. Walzer and Gerald have found that "only some boys with either chromosome pattern have begun to exhibit behavioral difficulties; most of them, they hasten to add, "are developing into wonderful kids."

Some XYY boys "seem to be impulsive and to have difficulty in controlling themselves," Dr. Gerald re-

ported at the press conference following the research committee announcement, and "XYY boys are prone to have speech and language difficulties, although their IQs are normal or even high."

Dr. Walzer told MEDICAL TRIBUNE that he feels chromosome screening is necessary "because you can prevent a lot of hell for these kids by diagnosing early."

"I believe that parents, have a right to know of any chromosome variations and they have a right to watch their child, to make changes in his life, to enrich it anyway they can, and to help him in whatever way is possible," he said.

In Contact With Families

"In a study like this, in which you share genetic information with people, one must be available to them in the future when questions and problems may arise. This particular experimental design allows for that."

Dr. Walzer was referring to the fact that he spends two or three hours every month with each family; at this time, the child is tested and observed. He maintains that he is available for telephone consultation at any time.

This aspect of the study was also criticized by Dr. Beckwith and his group. Because the investigation includes the promise of assistance and counseling in the event that the extra chromosome results in behavior disorders, they contend that worried patients may agree to participate under duress—the offer of professional help.

Dr. Walzer, who is also senior associate in genetics at Children's Hospital Medical Center, does not agree with this assessment of the parents in the study. "It is most arrogant," he said, "to assume that parents are so

Illustrator in Air Force



Medical illustrating is not usually a career associated with the armed forces, but there are a few of these artists there. Sgt. James Raymond is one of some 25 of them assigned to the Air Force.

easily pressured that they cannot make their own decisions, and that investigations that develop such information should not be undertaken because parents cannot handle it."

"Right now, it's almost as if anyone wanting to do an investigation automatically must be thought to be unethical, and from that point on he must prove himself ethical," Dr. Walzer added.

"I know the consultation and the advice I have sought at this phase of the work, and the presentation I have made. I know that I am not unethical. I have a great sensitivity to that—that's the charge that has hurt the most."

Q. & A. Roundup of Data on XYY Karyotype

Medical Tribune Staff

Controversy has surrounded the XYY karyotype from the time early in the 1960s when geneticists first discovered that some men have this sex chromosome anomaly. If the Y is necessary for maleness—and that seems to be its only contribution—what is the effect of a double dose?

Investigations have produced some light, along with a great deal of heat. Presented here, in question and answer form, is a roundup of factual information about a much-debated human condition.

How common is the XYY chromosome abnormality?

It is present in about one per 1,000 liveborn males, according to pooled data from cytogenetic surveys of newborns conducted at medical centers in this country (Boston and New Haven), Scotland, Canada, and Denmark. Of the 28,582 male babies examined, 26 had the XYY karyotype.

How does this incidence compare with that of other sex chromosome anomalies?

The less-publicized XYY pattern occurs with approximately the same

frequency—the newborn males in the above survey included 30 XYYs.

Sex chromosome abnormalities in liveborn females are considerably less common. For example, of the nearly 15,000 girl babies who were screened, only two had the XO complement while 13 were XXX.

The most common autosomal error—Down's syndrome—was found in 45 of the total of 43,558 newborns, or roughly one per 1,000.

What investigation first suggested an association between deviant behavior and the XYY karyotype?

In 1965, chromosome studies were made at a Scottish maximum security hospital of 315 of the 342 men housed in wings allocated to the mentally subnormal and mentally diseased. Nine of these men had the XYY pattern, thus indicating an incidence in this prison population of nearly 3 per cent.

Do later studies back up this finding?

Some do, some don't, but the current estimate based on pooled data from a number of countries is that about 2 per cent of men in penal-institutional settings are XYYs. (Pre-

ferences are lower in institutions exclusively penal or mental.) This amounts to some 20 times the pooled newborn incidence of one per 1,000.

Findings in individual studies have ranged from no XYYs among 31 mentally ill men with criminal records in Greece to 10 such men among 255 mentally subnormal men in an English security institution. Chromosome screening of about 1,100 boys in Scottish schools for problem children and another 607 older boys in institutions for delinquents identified five XYYs, for an over-all incidence of about three per 1,000.

Did Richard Speck—the man convicted of killing eight Chicago nurses—have the XYY make-up?

No. An erroneous report to this effect gained wider circulation than did the subsequent correction.

A French murderer of the same era definitely was XYY, however, and his chromosome pattern became a trial issue when the court appointed a commission to evaluate findings about this chromosome aberration. One commission member was geneticist Jerome Lejeune, codiscoverer of the cause of Down's syndrome.

Dr. Lejeune testified that "the bearer of an extra chromosome is a sick man," and noted the frequency of the XYY pattern among prisoners. But he then emphasized: "There is no such thing as a born criminal. It is not a chromosome which causes the commission of a crime but an ensemble of reactions along with an absence of control."

The trial's outcome? Conviction, with no official recognition of the chromosome defense—but a lighter-than-usual sentence.

Which specific behavioral problems have been linked to the XYY make-up?

There is general agreement that those early descriptions of XYY men as "criminal" or "supernormal" or abnormally "aggressive" have proved inaccurate. Even in mental-penal institutions, XYYs are not overrepresented among the men considered dangerous and violent.

Some investigators believe that the chief characteristic is increased impulsiveness. This trait, in their view, seems to be a common denominator despite differences in background or intelligence.

Do XYY men look "different"?

No. But they are, as a rule, taller than would be expected from their family pedigree. And some surveys indicate that they are afflicted with severe acne more frequently than are XY men.

Aren't institutional findings apt to be biased in some respects?

Yes. Admission procedures differ from place to place, and everyone is aware that only a small proportion of the people who commit antisocial acts wind up behind bars.

Additionally, it is thought that the tallness of the average XYY may be a factor in sentencing. Because of his size, he may be considered—perhaps unconsciously—more of a "threat" than the XY who has shown deviant behavior.

What is known about XYY males who are not in institutions?

Comparatively little, although the incidence of one per 1,000 newborn boys makes it obvious that XYYs are far from rare—and suggest that the great majority must be leading ordinary lives.

Reports from at least two surveys of noninstitutionalized men have indicated that those with an XYY karyotype did not have criminal records or

show signs of deviant behavior.

As some geneticists have commented, if all XYYs were antisocial, the world wouldn't have enough jails.

Are XYY males fertile?

A number are known to have fathered children. There is apparently only a small risk that they will have an XYY son.

What about intelligence levels?

Since most studies have been made on men in mental and/or penal institutions, findings about intelligence are bound to be skewed. Even so, the intelligence range is known to be wide—from definitely subnormal to superior. Several studies in institutions not intended specifically for the mentally retarded, however, have shown that the

average IQs of men with the XYY karyotype are lower than those of XY controls in the same setting.

Is the XYY makeup linked to endocrine or neurologic abnormalities?

Apparently not. Although some XYY men show elevated levels of hormones (including testosterone), this has been far from a consistent finding. Tests performed on XYYs and XYs in the same setting have revealed no significant differences.

The evidence for neurologic abnormalities is similarly inconclusive. Some investigators have observed tremor and other neurologic signs, for example, in XYYs in mental-penal settings, but others have not found abnormalities. Clinical epilepsy appears to be no more common among XYYs than it is

among XYs in the same setting.

Is the boy with an XYY makeup at risk of showing deviant behavior?

The experts' answers range from a flat "No" or "Yes" to "Nobody knows" or "It all depends." Most investigators do agree that XYY males are found in mental-penal institutions at a frequency much greater than the "background" incidence of one per 1,000 newborn males.

But as many investigators point out, a child's behavior is influenced by numerous factors, including complications that occurred during fetal life or at birth, social class, family stability, parental supervision, genetic makeup.

Instead of insisting on nature or nurture, they think the effects of both must be taken into account.

F. G.

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Contraindicated: Known hypersensitivity to the drug. Children under 6 months of age. Acute narrow angle glaucoma; may be used in patients with open angle glaucoma who are receiving appropriate therapy.

Warnings: Not of value in psychotic patients. Caution against hazardous occupations requiring complete mental alertness. When used adjunctively in convulsive disorders, possibility of increase in frequency and/or severity of grand mal seizures may require increased dosage of standard anti-convulsant medication; abrupt withdrawal may be associated with temporary increase in frequency and/or severity of seizures. Advise against simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms (similar to those with barbiturates and alcohol) have occurred following abrupt discontinuance (convulsions, tremor, abdominal and muscle cramps, vomiting and sweating). Keep addiction-prone individuals under careful surveillance because of their predisposition to habituation and dependence. In pregnancy, lactation or women of childbearing age, weigh potential benefit against possible hazard.

Precautions: If combined with other psychotropics or anticonvulsants, consider carefully pharmacology of agents employed;

drugs such as phenothiazines, narcotics, barbiturates, MAO inhibitors and other anti-depressants may potentiate its action. Usual precautions indicated in patients severely depressed, or with latent depression, or with suicidal tendencies. Observe usual precautions in impaired renal or hepatic function. Limit dosage to smallest effective amount in elderly and debilitated to preclude ataxia or oversedation.

Side Effects: Drowsiness, confusion, diplopia, hypotension, changes in libido, nausea, fatigue, depression, dysarthria, jaundice, skin rash, ataxia, constipation, headache, incontinence, changes in salivation, slurred speech, tremor, vertigo, urinary retention, blurred vision. Paradoxical reactions such as acute hyperexcited states, anxiety, hallucinations, increased muscle spasticity, insomnia, rage, sleep disturbances, stimulation have been reported; should these occur, discontinue drug. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests advisable during long-term therapy.

Dosage: Individualize for maximum beneficial effect. **Adults:** Tension, anxiety and psychoneurotic states, 2 to 10 mg b.i.d. to q.i.d.; alcoholism, 10 mg t.i.d. or q.i.d. in first 24 hours, then 5 mg t.i.d. or q.i.d. as needed; adjunctively in skeletal muscle spasm, 2 to 10 mg t.i.d. or q.i.d.; adjunctively in convulsive disorders, 2 to 10 mg b.i.d. to q.i.d. **Geriatric or debilitated patients:** 2 to 2½ mg, 1 or 2 times daily initially, increasing as needed and tolerated. (See Precautions.) **Children:** 1 to 2½ mg t.i.d. or q.i.d. initially, increasing as needed and tolerated (not for use under 6 months).

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In Science, Derogation Is Not Debate

AS AN ARTICLE, "The XYY syndrome: a dangerous myth" (Jon Beckwith, Ph.D., and Jonathan King, Ph.D., *New Scientist* 64:474-Nov. 14, 1974) starts by projecting a significant scientific issue in a suitable forum. When it reviews genetic reports on challenges, methodologies and interpretation of studies in this area, it is a valid exercise of the scientific method. When it proceeds into a derogatory discourse and attack upon fellow scientists, it is not. Scientific derogation is not scientific debate.

After criticizing the projection of opinions as facts, Beckwith and King then present their own assumptions—as facts. In so doing, they weaken the thrust of their argument, to wit, that social unrest and anti-social behavior are not solely the results of deviant or genetic abnormality but also significantly relate to poor social and economic conditions, poor standards of living and of education, of poor health. One can agree that it is dangerous "to reinforce a growing tendency to explain away the problems of society in terms of the genes or biology of individuals" without also accepting as a correlate that investigators who seek to study the relationship of genetic and physiologic factors to behavior should be prevented from doing such research.

One can find the methodology of a study unacceptable without challenging the integrity or good faith of a fellow scientist with a differing opinion. It is as unacceptable as it is unbecoming in science to use one of its forums to charge "subtle coercion" on the part of others even as one uses the not-so-subtle coercion of the law courts and sensational press publicity to halt the research of those with different beliefs. It is unfair to intimate without the strongest evidence that the other investigators' procedures constitute a dangerous "self-fulfilling prophecy." One need not accept a bland assertion

charging the honest efforts by physicians seeking to inform patients or family to the best of their ability to be a dangerous procedure. "There is ample evidence that this sort of attitude toward the child may endanger the very behavior they fear or create other unpredictable problems." Is the evidence really definitive?

One cannot justify condemnation by geneticists that "psychiatrists' intervention may be creating more problems for the children than would have occurred if they had been left alone." Is this not the arrogation of psychiatric expertise by geneticists? Are they expressing guilt feelings in regard to the Pandora's Box which they may believe they, as geneticists, have opened? The authors' choice of those studies which they deem "to be worthwhile" is a matter of opinion; a charge as to studies which they believe pose "serious risk . . . or would be positively harmful to the subjects involved" is likewise based on an assumption that is projected in a manner damaging to science, their fellow scientists, to patients, and to themselves.

Despite any means of agreement with some elements of their article, we can find no justification for the authors' going beyond the realm of scientific debate to derogatory ad hominem attacks, and even less for carrying such attacks from the forum of science into the journalistic arena in an attempt to stop the research of other investigators. To do so is to do exactly what the authors charge to others: "wasting society's resources on poorly conceived and ideologically biased battles."

Such actions will delay the clarification of the influences of genetics as well as environmental factors on behavior. They will distract from and not add to a concentration on those aspects of our "social and economic structure" which generate medical as well as social and behavioral problems. A.M.S.

Whose Ox Is Gored By Surgery?

AN IRONIC conjunction of news stories announced a new heart transplant operation by Dr. Christian Barnard, i.e., implant of a second left heart, almost simultaneously with the death of Louis B. Russell, world's longest surviving heart recipient, who had undergone heart transplant surgery more than six years ago. The headlines of the new transplant story, "Barnard risk, he said, is a statistic, my risk is that I live or die."

It is Eager To Try 2nd Heart Surgery Again" and "Barnard Is Eager for 2nd Operation," just do not convey the sense that it is the patient, not the surgeon, who is primarily at risk.

A case in point, and such cases are many, was the recent experience of a patient, known to an internist, who recounted his own shattering interview with his cardiac surgeon, a man of great eminence. Because of increasing angina he consulted the surgeon, who had performed an earlier operation on him, the Vineberg procedure, to discuss

the feasibility of a coronary bypass. The undertaking is formidable for the Vineberg procedure, matting epicardium to extracardiac tissues, raises problems of bleeding and freeing up the coronary arteries for bypass. The surgeon said he would be willing to take the risk. The patient understandably reacted quite differently. "our risk, he said, is a statistic, my risk is that I live or die."

P.S. The operation was not done and the patient lives. In these days of informed consent it is all very well, indeed necessary, to tell the patient of the potential risks of surgical or medical intervention. When one takes another's life in one's hands, psyche and soma both demand solicitude. The cutting edge of what one says to a patient is no less sharp than the scalpel, and requires quite as much exercise to discretion and delicacy as what one does. R.G.



"Sorry I'm late, but it took them about a week to determine I was legally dead."

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LETTERS TO TRIBUNE

Medical Insanity?

In your "Editorial Capsules" (MT, Nov. 27) Harold C. Hodge, Ph.D., was quoted as follows: "... Fluoride is accepted as a safe and effective prophylactic agent in the prevention of dental caries whose benefits, strikingly apparent in childhood, continue into adult life with continued use." This statement encompasses the some political propaganda expounded over the years to make fluoridation more palatable to physicians and dentists.

The true facts of the fluoridation hoax are revealed in the book "Fluoridation and Truth Denied" which I have co-authored with Gladys Caldwell of La Crescent, Calif. The book exposes fluoridation as medical insanity and the greatest consumer fraud of this century.

PHILIP E. ZANFAGNA, M.D.
Lawrence, Mass.

Ambulatory Surgical Care

I should like to comment on your article concerning ambulatory surgical facilities (MT, Nov. 13).

It should be emphasized that the movement for free standing ambulatory surgical care is growing throughout the United States. Those of us who are involved in it are terribly concerned over the same issues which both Dr. Hinds and Dr. Welch. We, too, are concerned over the over utilization of such facilities and the quality controls that must be built into them to make them acceptable to the American public. The first meeting of the Society for the Advancement of Free Standing Ambulatory Surgical Care took place in Phoenix in early November and at that time we dedicated ourselves to the construction of standards of care which would be appropriate for facilities that are not associated with hospitals.

We must let the American people know that there is no stigma attached to receiving surgical care in a free standing ambulatory surgical facility; that the care rendered in such a facility under the proper guidelines is infinitely better than what one can get in hospital settings. The personal care, warmth, convenience, high standards and reduced cost have been found to be eminently acceptable to the patient population in the city of Wichita. We are amply demonstrating that the Phoenix Surgecenter was no accident; not an

oberration which was only going to succeed in Phoenix. We have found their model to be reproducible and the public of our city to be just as responsive.

Any changes in the health care system, regardless of who they affect, are going to be met with resistance by the traditionalists. This is understandable. Blind opposition, however, is not constructive and the public does deserve an alternative. Free standing ambulatory surgical facilities, in those communities which are fortunate enough to have them, give their local population their free choice of such an alternative. This is entirely consistent with the American way of life.

Mr. Jones Lindum states that when free standing centers compete with hospital units the cost of the system is upped in toto. We do not believe this to be true. So far no factual data to support his point of view or our point of view has been forthcoming. Such a study is now underway by the Department of HEW. We hope that within the next four or five years we will have a specific answer to this knotty problem.

M. ROBERT KNAPP, M.D.
Wichita, Kans.

Surgecenter®

Your article (MT, Nov. 13) uses the term "Surgecenter" in referring to all outpatient ambulatory surgical facilities. "Surgecenter" is a registered name. We would greatly appreciate it if you would acknowledge this.

WALLACE A. REED, M.D.
Surgecenter
Phoenix, Ariz.

Blonius Erythematosa—

With all due respect to Dr. Freddy Homburger, (MT, Dec. 11), I too studied Latin. Not his seven and one-half years, but a mere four years.

In college, I also studied of all things, one year of GREEK.

I think if Dr. Homburger would consult any medical dictionary—say, even Webster—he would find "erythra" is Greek, meaning "red," and the root "tela" is also Greek, meaning, in this context, "abnormal or diseased condition."

All of which proves the old adage, "The Greeks had a word for it."

ALAN E. VAN SICKER, M.D.
Larchmont, New York

Connecticut Librarians 'Make Rounds'



Medical librarians are now accompanying teaching physicians and medical students on rounds at the University of Connecticut Health Center. By actually "making rounds," the librarians can efficiently answer requests from doctors and students for articles and locate other helpful material.

Massive Glucose Infusions Shown Lifesaving in Shock

Continued from page 1

for 30 hours. In the first group of studies all treated animals received continuous I.V. infusions of 50 per cent dextrose, starting 15 minutes after endotoxin injection and continuing for five hours, "with infusion rates adjusted to maintain blood glucose levels at control pre-shock values."

Eight of 11 control animals given endotoxin alone died within 30 hours, Dr. Hinshaw reported. He noted that the three that did not die all became "only mildly hypoglycemic." The nine treated controls all survived. "Heart rate, rectal temperature, and pH were notably elevated within five hours in animals receiving glucose."

In the second group of studies, glucose infusions were started only after hypoglycemic levels reached 40 mg. per cent. Treatment to restore glucose levels and maintain them at control values was continued for seven hours after endotoxin shock and "prevented death in all five animals." Ten controls died.

Dr. Hinshaw added that massive bloody diarrhea observed in the control animals was not seen in the glucose-treated dogs. In addition, the treated animals were "generally more alert and demonstrated an increased level of well-being during the postshock recovery period."

Dr. Hinshaw commented: "We were surprised by the huge amounts of glucose we had to give in order to keep up with the animals' requirements. Far more was needed than anyone would have predicted. It was as if the 'internal fires of metabolism' were burning with forest fire intensity. We found that only concentrated glucose could be used; otherwise, the animals would die of pulmonary edema."

In an interview, the investigator said that total glucose turnover in endotoxin shock animals occurred every five minutes. "The turnover is so great it's like diabetes."

Ignored by Most Clinicians

"Most clinicians don't measure glucose in shock because they don't think it plays a major role. Hypoglycemia in man is readily observed and interpreted accordingly. But the fact is that nobody has been doing insulin studies in shock. We have followed the dog experiments with primates studies, and we're observing hypoglycemia in baboons and rhesus monkeys in shock."

He added that other shock investigators may have missed the hypoglycemia because their glucose studies terminated at six hours, and "we're seeing hypoglycemia from the sixth to the 24th hour."

He told MEDICAL TRIBUNE that his team was "enormously encouraged" by a recent report from a University of Munich group describing "hypoglycemia in human shock for the first time." The studies were conducted by Dr. R. Rackwitz of the university's medical clinic.

Dr. Hinshaw stressed that shock is a multifactorial problem, and that massive glucose infusions are not "the total answer" but "one tool that we've got onto one of the mainline problems. With this gap plugged, we can repeat almost all of the other therapies. It opens up for the first time a possible avenue of approach to the problem of shock."

Coauthors were Drs. Ruth T. Brantley, Marvin D. Peyton and L. J. Greenfield; J. J. Coakley, Ph.D., and L. T. Archer and M. K. Black.

NIH Revises Booklet

Medical Tribune Report

BETHESDA, Md.—NIH's Clinical Center has issued a revised edition of its booklet for physicians, *Current Clinical Studies and Patient Referral Procedures*.

Mitral Valve Calcification in Aortic Stenosis

Medical Tribune World Service

BUENOS AIRES—Congestive heart failure and abnormal conduction and rhythm disturbances often indicate the secondary presence of mitral valve calcification in cases of idiopathic hypertrophic subaortic stenosis, Dr. Emilio R. Giuliani, Associate Professor of Cardiology at the Mayo Clinic, told the seventh World Congress of Cardiology.

While the association of the two diseases is not common—Dr. Giuliani found an incidence of seven per cent among 150 Rochester, Minn., patients with proven idiopathic hypertrophic subaortic stenosis—the presence of both often leads the physician astray to a diagnosis of primary mitral valve disease.

Of the seven patients placed on the beta-adrenergic blocking agent propranolol—the initial treatment of choice—six have been doing well for periods of six months to four years while one patient died suddenly.

When chemotherapy fails, surgery is

indicated, Dr. Giuliani said. Of the three patients who underwent surgery (an additional patient died awaiting surgery), one patient is doing well, another died following replacement of his mitral valve and the third required a pacemaker because of complete heart block. "It is likely," Dr. Giuliani predicted, "that artificial pacing may find a greater role in this small group of patients."

Septal Myectomy

► In a second study, the same team of investigators reported that experience with transaortic septal myectomy in cases of idiopathic hypertrophic subaortic stenosis demonstrated that the surgery can be accomplished at relatively low risk and can produce sig-

nificant, long-term symptomatic relief. In a group of 43 patients operated on from 1958 through 1972, the overall mortality rate for the period of follow-up—ranging from 18 to 142 months—was 25 per cent, including three patients who died shortly after additional operative procedures and four late deaths, occurring suddenly at 1½, 2, 4 and 10 years postoperatively.

Of the 43 patients, the majority (21) had resection of a wide wedge of interventricular muscle via transaortic approach while 19 had myectomy, accomplished through a ventriculotomy incision, alone or in combination with a transaortic incision, and three patients had additional procedures.

Of the 28 patients who were followed up for recurring symptoms, 12 are asymptomatic, and in the rest, syncope has been eliminated.

Before prescribing or administering, see Standard Literature for full product information. The following is a brief summary.

Contraindications: Severe central nervous system depression, coma, states from any cause, hypernatremia or hyponatremia, heart disease of extreme degree.

Warnings: Administer cautiously to patients who have previously exhibited a hypersensitivity reaction (e.g., blood dyscrasias, jaundice to phenothiazine). Phenothiazine has a capacity of potentiating central nervous system depressants (e.g., anesthetics, opiates, alcohol, etc.) as well as atropine and phosphorus insecticides. During pregnancy, administer only when the potential benefits exceed the possible risks to mother and fetus.



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Precautions: There have been infrequent reports of leukopenia and/or agranulocytosis and convulsive seizures. In epileptic patients, anticonvulsant medication should also be maintained. Prolonged relapse may be avoided by continuing within the recommended limits of dosage. Administer cautiously to patients participating in activities requiring complete mental alertness (e.g., driving) and increase dosage gradually. Orthostatic hypotension is more common in females than in males. Do not use antipsychotics in treating drug-induced hypotension since phenothiazines may induce a reversed epinephrine effect on occasion. Daily doses in excess of 300 mg. should be used only in severe neuropsychiatric conditions.

Adverse Reactions—Central Nervous System: Drowsiness, especially with large doses, early in treatment; infrequently, pseudoparkinsonism and other extrapyramidal symptoms: muscular contractions, hyperreflexia, labors, psychic reactions, restlessness, and headache. **Adverse Reactions—Systemic:** Dryness of mouth, blurred vision, constipation, nausea, vomiting, diarrhea, nasal stuffiness, and pallor. **Endocrine System:** Galactorrhea, breast enlargement, amenorrhea, inhibition of ejaculation, and genital edema. **Skin:** Dermatitis and skin eruptions of the urticarial type, photosensitivity. **Cardiovascular System:** ECG changes type. **Cardiovascular Effects:** Bradycardia, A-V block, cases described as partial avulsion.

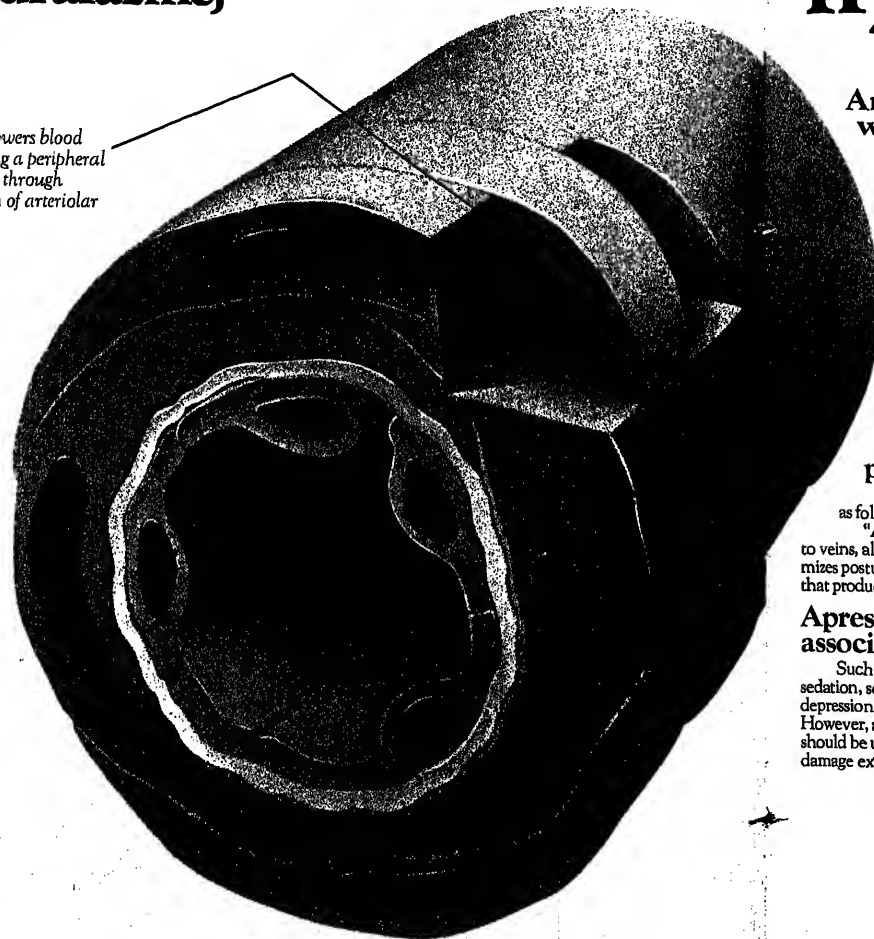
The following reactions have occurred with phenothiazines and should be considered: **Adverse Reactions:** Blood, discoloration, necrosis, purpura, leukopenia, agranulocytosis, erythema, exfoliative dermatitis, central dermatitis. **Blood Dyscrasias:** Agranulocytosis, leukopenia, eosinophilia, thrombocytopenia, anemia, aplastic anemia, pancytopenia. **Allergic Reactions:** Fever, lymphoid edema, angioneurotic edema, urticaria. **Hypersensitivity:** Jaundice, biliary stasis. **Cardiovascular Effects:** Changes in terminal portion of electrocardiogram, including prolongation at Q-T interval, lowering and inversion of T wave, and appearance of a new T wave identified as a mild T or a U wave have been observed with phenothiazines, including Mellaril (thioridazine); these appear to be reversible and due to altered repolarization, not myocardial damage. While there is no evidence of a causal relationship between these changes and significant disturbance of cardiac rhythm, several sudden and unexpected deaths apparently due to cardiac arrest have occurred in patients showing characteristic electrocardiographic changes while taking this drug. While proposed, periodic electrocardiograms are not regarded as predictive. **Hypotension:** Usually resulting in cardiac arrest. **Exaggerated Responses:** Alcoholism, agitation, motor restlessness, dystonic reactions, tremors, torticollis, oculobulbar, oculogyric crisis, trismus, muscular rigidity, acute dystonia. **Patient Tardive Dyskinesia:** Persistent and sometimes irreversible tardive dyskinesia, characterized by rhythmic involuntary movements of the tongue, face, mouth, or jaw (e.g., protrusion of tongue, puffing of cheeks, sucking of mouth, clenching of teeth) and sometimes of extremities may occur on long-term therapy or after discontinuation of therapy. The risk being greater in elderly patients on high-dose therapy, use Mellaril cautiously. If symptoms appear, discontinue all antipsychotic agents. **Symptoms may be masked if treatment is initiated, dosage is increased, or anticholinergic agent is syphotic. Fine tremulous movements of tongue may be an early sign, and syndrome may not develop if medication is stopped at that time. Excessive Drowsiness:** Menstrual irregularities, altered libido, syncopal attacks, lactation, weight loss, incontinence. **Other:** Behavioral effects suggestive of a paradoxical reaction, including excitement, bizarre dreams, aggression, or psychosis, and acute convulsions. **Delayed Effects:** Aggravation of a peculiar skin-sensitivity syndrome caused by progressive pigmentation of skin on conjunctiva and/or accompanied by discoloration of exposed areas and sunburn, at times in the absence of antihistamine therapy. **Other:** Acute dystonic crisis, acute dystonic crisis, acute dystonic crisis.

Caution: Phenothiazines, like all neuroleptics, may cause hypotension.

Caution: Phenothiazines, like all neuroleptics, may cause hypotension.

Apresoline®...where the action is in treating hypertension (hydralazine)

Apresoline lowers blood pressure by exerting a peripheral vasodilating effect through a direct relaxation of arteriolar smooth muscle



An antihypertensive idea whose time has come

Doctors who treat hypertension are increasingly interested in the one oral drug that has a mechanism of action exclusively its own—Apresoline.

Apresoline is in an antihypertensive class by itself because it reduces blood pressure through a unique mechanism. Acting at the ultimate site of hypertension, it directly relaxes arteriolar smooth muscle to decrease peripheral vascular resistance and arterial pressure. As blood pressure falls, there is an accompanying rise in cardiac output and rate.

Apresoline also maintains or increases renal and cerebral blood flow.

Apresoline minimizes postural hypotension

Nickerson¹ describes the action of Apresoline as follows:

"A preferential effect on arterioles, as compared to veins, allows the increase in cardiac output and minimizes postural hypotension; the latter is much less than that produced by agents blocking sympathetic nerves."

Apresoline avoids side effects associated with other agents

Such untoward reactions as drowsiness, lethargy, sedation, sexual dysfunction, and exacerbation of mental depression are not usually encountered with Apresoline. However, as with any antihypertensive agent, hydralazine should be used with caution where advanced renal damage exists.

Apresoline helps tailor the regimen to the patient

When Apresoline is added to an existing antihypertensive regimen, it introduces a different and complementary pharmacologic approach to the control of your patient's hypertension.

Apresoline thus affords the physician a variety of combinations with which he can construct regimens more closely molded to individual requirements. According to Freis,² such a combination of drugs, each with a different antihypertensive mechanism, is the most effective way to control blood pressure. This may also permit lower drug dosages.

Apresoline lends itself admirably to the contemporary antihypertensive rationale and its therapeutic goals: more vigorous and more effective control of blood pressure through a plurality of mechanisms.

Apresoline: used effectively in the VA studies

Apresoline was one of the three basic drugs used in two published VA cooperative studies.^{3,4}

References: 1. Nickerson M: Antihypertensive agents and the drug therapy of hypertension. In Goodman LS, Gilman A (eds): *The Pharmacological Basis of Therapeutics*, ed 4. New York, The Macmillan Company, 1970, p 729. 2. Freis ED: Hypertension: a controllable disease. *Clin Pharmacol Ther* 13:627-632, 1972. 3. Effects of treatment on morbidity in hypertension: Results in patients with diastolic blood pressures averaging 115 through 129 mm Hg. Veterans Administration Cooperative Study Group on Antihypertensive Agents. *JAMA* 202:1028-1034, 1957. 4. Effects of treatment on morbidity in hypertension: II. Results in patients with diastolic blood pressure averaging 90 through 114 mm Hg. Veterans Administration Cooperative Study Group on Antihypertensive Agents. *JAMA* 213:1143-1152, 1970.

Next page: Apresoline (hydralazine) and the Hypertension Task Force

Apresoline® hydrochloride (hydralazine hydrochloride)

INDICATIONS
Essential hypertension, alone or as an adjunct.
CONTRAINDICATIONS
Hypersensitivity, coronary artery disease, mitral valvular rheumatic heart disease.
WARNINGS
Chronic administration of doses over 400 mg per day may produce an arthritis-like syndrome last-

ing to a clinical picture simulating acute systemic lupus erythematosus. This may also occur at lower doses. Most of these reactions are reversible upon withdrawal of therapy, but long-term treatment with steroids may be necessary and cardiac have been delayed many years later. Complete blood counts, L.C. cell count, and erythrocyte sedimentation rate determinations are indicated before and periodically during prolonged therapy, even though patient is asymptomatic. These studies are also indicated in the presence of any unexplained symptoms.
Use MAO inhibitors with caution.

Use in Pregnancy

The drug should be used only when, in the judgment of the physician, it is deemed essential to the welfare of the patient.
PRECAUTIONS
Use cautiously in suspected coronary artery or other cardiovascular disease, cerebral vascular accidents, and advanced renal disease. Retinal hemorrhages may occur and the blood pressure response may be delayed.
Peripheral neuritis, produced by paraesthesiae, numbness, and tingling, has been observed. Published evidence suggests an antipyridoxine effect

and addition of pyridoxine to the regimen if symptoms develop.
Blood dyscrasias, consisting of reduction in hemoglobin and red cell count, leukopenia, agranulocytosis, and purpura, have been reported rarely. If such abnormalities develop, discontinue the drug. Periodic blood counts are advised during prolonged therapy.
ADVERSE REACTIONS
Common headache, palpitations, nervousness, nausea, vomiting, diarrhea (tachycardia and tachypnea less frequent), nasal congestion, nasal lacrimation, conjunctivitis, peripheral neuritis,

avoided by pyridoxines, numbness, and tingling, edema, distention, tremors, muscle cramps, psychotic reactions characterized by depression, disorientation, or anxiety, hyperreflexia (trembling, rash, irritability, pruritus, fever, chills, dysrhythmia, and rarely, basophilic conjunctivitis), difficulty in micturition (dysuria, paralytic ileus), lymphocytopenia, epistaxis, nose bleed, decrease in hemoglobin and red cell count, indigestion, granulocytopenia, and purpura (hypertension; paradoxical pressor response).

DOSEAGE

Initiate therapy by gradually increasing dosage, adjusted according to individual response. Start with 10 mg 4 times daily for the first 3 to 4 days, increase to 20 mg 4 times daily for balance of first week. For second and subsequent weeks, increase dosage to 50 mg 4 times daily. For maintenance, adjust dosage to lowest effective level.
The incidence of toxic reactions, particularly the L.C. cell syndrome, is high in the group of patients receiving large doses of Apresoline.
In a few resistant patients to 2 to 200 mg Apresoline daily may be required for a significant antihypertensive effect.

In such cases, a lower dosage of Apresoline combined with a thiazide, reserpine, or both may be considered. However, when continuing therapy, individualization is essential to insure the lowest possible therapeutic dose of each drug.
HOW SUPPLIED
Tablets, 10 mg (pale yellow, dry-coated) bottles of 100 and 1000.
Tablets, 25 mg (pale yellow, dry-coated) bottles of 100, 500, and 1000.
Tablets, 50 mg (pale yellow, dry-coated) bottles of 100, 500, and 1000.

Tablets, 100 mg (pale yellow, dry-coated) bottles of 100.
Consult complete literature before prescribing.
CIBA Pharmaceutical Company
Division of CIBA-GEIGY Corporation
Summit, New Jersey 07901

C I B A

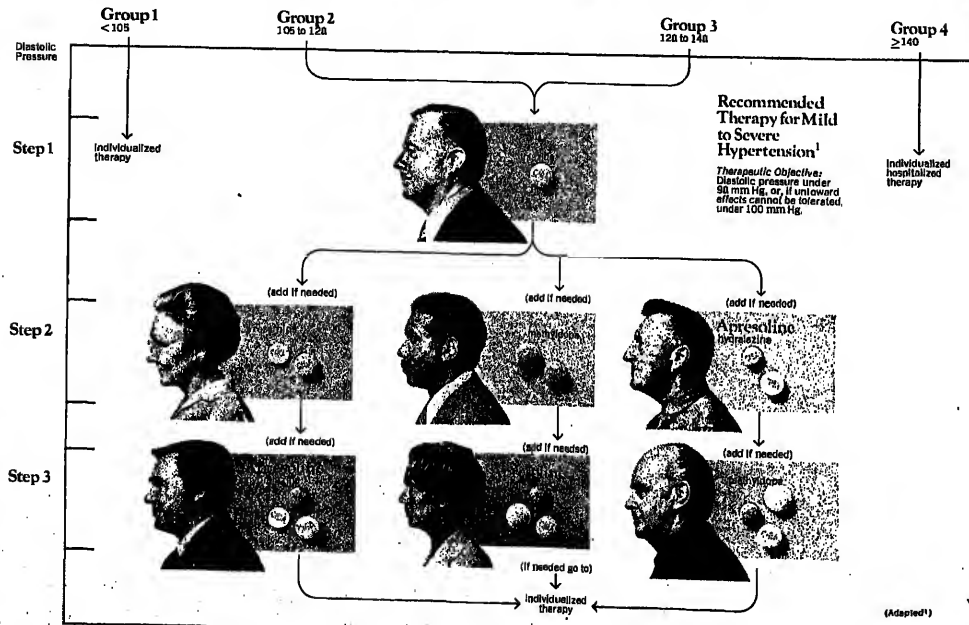
Apresoline... (hydralazine) part of the Hypertension Task Force "plan of action"

In September 1973, Task Force 1 of the National High Blood Pressure Education Program recommended a series of antihypertensive regimens for groups with hypertension ranging from mild to severe. Hydralazine—used in combination with sympathetic-inhibiting and/or diuretic antihypertensive

agents—was a specific recommendation for "second step" and "third step" therapy in patients with diastolic pressures ranging from 105 to 140 mm Hg. Hydralazine played a prominent role in the Task Force regimens because of its compatibility with almost any antihypertensive regimen. For

Apresoline can be combined advantageously with nearly all diuretics and sympathetic inhibitors.

Reference 1: Report of Task Force 1, National High Blood Pressure Education Program. Recommendations for a National High Blood Pressure Program Data Base for Effective Antihypertensive Therapy, Sept. 1, 1973. JHEW Publication No. (PH) 74-585.



Apresoline (hydralazine)
...acts directly at the ultimate
site of hypertension
...brings something
special to almost any
antihypertensive
regimen

For brief prescribing information,
please see preceding pages.



C I B A

Wednesday, January 15, 1975

MEDICAL TRIBUNE

33

One Man...and Medicine

ARTHUR M. SACKLER, M.D.,
International Publisher, Medical Tribune



"The Case of the XYY Chromosomes" RESEARCH AND PATIENTS RIGHTS - PART I

First, we had "full disclosure." Good! Then, we had "informed consent." Good! And now, we have "The Case of the XYY Chromosomes." There seems to be a madness loose—a pseudo-science, fundamentally an anti-science, which justifies its anti-intellectual means by its proclaimed social goals. The attacks of these anti-scientists seem to follow a simple format. Pick an emotionally labile situation, make emotionally laden charges in the name of The People, claim that The People need your protection... link up with like-minded attorneys... launch "consumer advocacy" litigation and do all this with sensational headline-provoking charges at a press conference. Mix these with an attack on the ethics of a sacrificial scapegoat. It makes no difference if he is a colleague or a fellow scientist, if his work is valid or cleared through all the requisite committees.

Assault on Medical Science

Today, Boston—historic cradle of American liberties—becomes the scene of a latter-day version of an earlier-day witch hunt. Boston doctors—pediatricians and psychiatric researchers, OBS/GYN men and residents—are exposed to civil litigation and worse. Sadly, Boston is not alone; in New York and Michigan, men devoted to biomedical research, men of achievement and sensitivity such as Krugman and Jacques Gollieb, come "under fire."

At Harvard Medical School a child psychiatrist undertook a study of children with sex chromosomal anomalies. He wanted to determine what if any untoward behavioral effects were related to an extra X or Y chromosome and whether, if such existed, early recognition and appropriate therapy would be helpful. In the past, this investigator had saved a number of unborn children with XYY chromosome pattern diagnosed by mniocentesis. He has found that the reading difficulty and academic failure reportedly associated with XYY chromosome makeup might be overcome by early recognition and appropriate therapy. Now he is exposed to vicious public attacks for his XYY research.

Circumventing Scientific Review

These attacks have circumvented what should have been a calm and considered scientific dialogue within the traditional forums of scientific exchange and peer review. Our present day Torquemadas apparently find nothing wrong in creating situations where in research physicians and their families are exposed to anonymous abusive and threatening phone calls: "You fascist pig... you should be destroyed." One would think that science has enough to contend with, such as the insensitive genetic "charges" of Shockley and Jensen. One would also expect a

greater sensitivity in the area of genetic medicine as one recalls our experience with sickle cell anemia—the blasts of national publicity and screening projects, the unfulfilled hopes and the ultimate unhappy residue of fear and dissatisfaction.

If one looks closely at the XYY case in Boston, one comes to some rather disturbing conclusions. The present protestors challenge the ethics of research in the early stages of life. Protestors from the other end of the political spectrum have just recently constricted, if not brought to a halt, studies involving both human fetus and fetal tissue. We have previously acknowledged the rights of the "Right-To-Life" groups to hold to their beliefs and to their own dogmas even as we have questioned their right to impose either or both upon those who have other beliefs and convictions. In the last few years research in mutually defective children has been attacked. The question of "informed consent" for any child has been raised. Clearly, as in "informed consent" for children, we enter a legal thicket of problems—when can give consent for the nonviable fetus, the unborn child, the newly born child or, for that matter, my child? It can be argued that the rights of an individual child cannot be placed in jeopardy, even by the child's parents.

Potential for Harm

The danger of this position is quite clear; under such circumstances one can deny to any minor not only participation in research but the potential benefits of such research because there is a potential for harm in virtually all therapeutic procedures. Such a *reductio ad absurdum* can undermine many preventive and prophylactic health measures, resting as they do on immunologic procedures. Even now, fear of such challenges has restricted research and therefore the determination of proper infants' and children's doses in a wide range of new drugs.

As we have said before, the ultimate end of such an attitude is to guarantee to my children a very questionable right—the right to suffer and die. I object to the preservation of such a dubious right.

Next Week

Dr. Sackler discusses research and patient's rights, full disclosure, and what true "science for people" calls for.

New Breast Prosthesis



A silicone-gel breast prosthesis that simulates normal breast tissue in weight, balance, texture, and movement has been developed at the University of Michigan. Unlike most other breast prostheses, it requires no carrying other than a regular bra and can be worn in the water.

Miami Students Are Offered Oral Exam in Surgery

Medical Tribune Report

CHICAGO—Substitution of an oral examination for a written essay will form part of the final grade for surgical students who elect it at the University of Miami School of Medicine.

The decision was made following an experiment in which 160 juniors voted overwhelmingly to adopt it. In the experiment, faculty, house staff, seniors, and juniors were asked to submit clinical questions based on 70 lectures by the faculty. A total of 150 questions were generated and senior students made the selection of the final 70.

"Criteria for good questions were that they were asked how to diagnose or what to do in given situations," said Dr. Bernard S. Linn, Associate Professor of Surgery, who presented the report to the Association of American Medical Colleges.

The student was examined by two teams, each consisting of one faculty, one resident, and one senior. Six teams were assembled in six rooms on two afternoons during the last week of clerkship. A student was seen for 15 minutes by one team, and after a 15 minute break, by the other.

"Every effort is made to put the student at ease, such as having coffee and making the process conversational," said Dr. Linn. "The student picks a card from the 35 that are placed face down on a table. He may peremptorily discard up to two questions. About three questions are covered in 15 minutes. He is rated on level of knowledge and on the ability to use the knowledge clinically."

Dr. Linn said the system places the student at the center of the learning process. If the students acquire the skills of self-directed learning, he pointed out, it is more likely they will continue to use them long beyond graduation from medical school.

Tribune Economic Analysis



Neither stockholders nor bondholders of AT&T are in any danger of being victimized by the government's antitrust action.

The market levels of American Telephone and Telegraph's securities—its bonds, convertibles, and stocks—fluctuate in response to many conditions. When interest rates are high, all the securities of the telephone company suffer. When interest rates are low, all at them benefit.

Intolerable interest rates and onerous government regulation go together—it's a double or nothing proposition. Once the pendulum swings interest rates down again, it will turn government regulation constructive once more. The next bull market will start in response to this double push. It will accelerate by the time the government's antitrust complaint is ready for adjudication.

All the "money market" stocks follow the bond market. Telephone bonds lead it. Once the bond market becomes hospitable again for money looking for work, the stock market will celebrate its reunion with money coming back to play.

Telephone bonds and stock will continue paying their way by current money market standards and will start doing much better the moment money conditions become tolerable.

However, the government's action is guaranteed to help keep the investing public away in droves. There's no way for the stock market in regard to its lost strida until the public returns.

Can we expect a cut in Federal taxes in 1975? Or has inflation replaced the Vietnam War?

Dr. M.B., Milwaukee, Wis.

There's no chance of a tax cut in 1975, although there is some chance of selective tax incentives. It's more realistic to say that the inflation started by the Vietnam war lives on after it.

Are electronic stocks a good buy today?

Dr. Ham Operator, New York

No stocks selling only yesterday at high multiples of earnings and low returns on dividends are a good buy.

German firms, their dollars increased 30% by dollar devaluation, are investing heavily in the United States, and more heavily in South America and Asia. Are we not going to suffer from this?

Dr. Fred W., New Orleans

Not at all. Money invested in America will bring dollars back and tie them down, strengthening the dollar and helping to offset inflation. Money invested in South America and Asia will be lost, weakening Germany, our number one competitor in Europe.

first line of offense against common urinary tract invaders



Gantanol B.I.D. (sulfamethoxazole)

Basic therapy in nonobstructed cystitis*

- Because it is active against susceptible strains of *E. coli* and other organisms
- Because it is effective in nonobstructed urinary tract infections such as cystitis, pyelonephritis and pyelitis
- Because it has high patient acceptance with convenient B.I.D. dosage
- Because it is economical
- Because it is available in two convenient dosage forms—tablets and suspension

Before prescribing, please consult complete product information, in summary of which follows:

Indications: Acute, recurrent or chronic nonobstructed urinary tract infections (primarily pyelonephritis, pyelitis and cystitis) due to susceptible organisms.

Notes: Carefully coordinate in vitro sulfonamide sensitivity tests with bacteriologic and clinical response; add sulfonamide acid to follow-up culture media. The increasing frequency of resistant organisms limits the usefulness of sulfonamides including sulfamethoxazole, especially in chronic or recurrent urinary tract infections. Mean serum sulfonamide blood levels as variations may occur; 20 mg/100 ml should be maximum total level.

Contraindications: Sulfonamide hypersensitivity; pregnancy at term and during nursing period; infants less than two months of age.

Warnings: Safety during pregnancy has not been established. Sulfonamides should not be used for group A beta-hemolytic streptococcal infections and with tetracyclines or prevent neigulase (rheumatic fever, glomerulonephritis) or such infections. Deaths from hypersensitivity reactions, agranulocytosis, aplastic anemia and other blood dyscrasias have been reported and early clinical signs (sore throat, fever, pallor, purpura or jaundice) may indicate serious blood disorders. Frequent CBC and urinalysis with microscopic examination are recommended during sulfonamide therapy. Insufficient data on children under six years of age.

Precautions: Use cautiously in patients with impaired renal or hepatic function, severe allergy, bronchial asthma; in glucose-6-phosphate dehydrogenase-deficient individuals in whom dose-related hemolysis may occur. Maintain adequate fluid intake to prevent crystalluria and stone formation.

Adverse reactions: Blood dyscrasias (granulocytopenia, aplastic anemia, thrombocytopenia, leukopenia, hemolytic anemia, purpura, hypoproliferative anemia and methemoglobinemia); neurologic reactions (nycturia, multiforma, skin eruptions, epidermal necrolysis, urticaria, severe skin eruptions, exfoliative dermatitis, photosensitization, erythema and allergic myocarditis); gastrointestinal reactions (nausea, emesis, abdominal pain, hepatitis, diarrhea, anorexia, pancreatitis and colitis); CNS reactions (headache, peripheral neuritis, mental depression, convulsions, ataxia, hallucinations, irritability and insomnia); renal/hepatic reactions (drug fever, chills, toxic nephritis with oliguria and anuria, pteridyluria, nephrosis and L.E. phenomenon). Due to certain chemical similarities with nomenclature as well as thyroid malignancies in rats following long-term administration. Cross-sensitivity with these agents may exist.

Dosage: Sulfamethoxazole is contraindicated in infants under 2 months of age (except adjunctively with pyrimethamine in congenital toxoplasmosis).

Level adult dosage: 2 Gm (4 tabs or susp.) initially, then 1 Gm B.I.D. or I.D., depending on severity of infection.

Infants: Children's dosage: 0.5 Gm (1 tab or susp.)/20 lb of body weight initially, then 0.25 Gm/20 lb B.I.D. Maximum dose should not exceed 75 mg/kg/24 hrs.

Supplied: Tablets, 0.5 Gm sulfamethoxazole; Suspension, 0.5 Gm sulfamethoxazole/5ml.

*due to susceptible organisms such as *E. coli*, *Klebsiella-Enterobacter*, *Staph. aureus*, *Proteus mirabilis*, and, less frequently, *Neisseria meningitidis*.

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Resignations Renew Call for Fed. Health Dept.

Continued from page 1
fare," declared Rep. Paul G. Rogers (D-Fla.), Chairman of the House Subcommittee on Public Health and Environment. "Health has to be taken out of the political system."

He added that the country's health programs "are being conducted out of the Office of Management and Budget, not by the health professionals."

Dr. Russell B. Roth, former president of the American Medical Association, noting that the A.M.A. favors a "free-standing Department of Health, with cabinet status," said the resignations underscore the association's stand. "Dr. Edwards has been unable to fight for his priorities as he sees them, because he is subsidiary to the top officials in H.E.W."

Stone Not on 'Team'

Ironically, Dr. Edwards' resignation came only a few days after he had asked Dr. Stone to resign, a move that stemmed from differences over the respective roles of the NIH and HEW.

In an interview, Dr. Edwards told *Medical Tribune* that Dr. Stone had not served as a "member of the team." "We feel strongly that, once policies are adopted [within HEW], the director of NIH should be an advocate of those policies. Dr. Stone has gone to the scientific community to attack decisions that were taken."

He said the "breakdown of communications" between himself and Dr. Stone led to "mutual agreement" that Dr. Stone should withdraw.

Four days later Dr. Edwards announced his own resignation, after twenty months in office. Prior to his last appointment, he was Commissioner of the Food and Drug Administration for nearly four years. He has accepted a post as senior vice president of Becton, Dickinson & Co., of Rutherford, N.J., a medical supply manufacturer.

Dr. Stone, former dean of the University of New Mexico School of Medicine, was appointed 18 months ago, after the abrupt firing of Dr. Robert Q. Marston as NIH chief. Dr. Marston had opposed efforts by the

Cardiologists Honor Dr. Corday



Dr. Elliot Corday was recently honored by the American College of Cardiology, which dedicated a symposium to him and gave him an award. Left to right, Dr. Simon Duck, Dr. Corday, and Dr. Henry I. Russok.

Nixon administration to reduce funding for medical research and training of research scientists.

Three Nobel laureates at NIH and three NIH chiefs issued a joint statement assailing Dr. Stone's firing as "one more indication of the degree to which NIH can be vulnerable to unwarranted and counterproductive political control."

The statement was made public at a press conference here by Drs. Christian Anfinsen, Julius Axelrod and Marshall Nirenberg, Nobel Prize winners, and Franklin Neva, Chief, Laboratory of Purified Diseases, National Institute of Allergy and Infectious Diseases; Robert Goldberger, Chief, Laboratory of Biochemistry, National Cancer Institute; and Earl Sadtman, Chief, Laboratory of Biochemistry, National Heart and Lung Institute. The press conference was sponsored by the Federation of American Scientists.

The Nobelists and the other scientists called for repeal of the National Cancer Act provision giving the President authority to appoint the NIH director. That provision, said the scientists, is a "major instrument" of political control over the research facility. Instead, they called on the President "to show his commitment to a politically independent" NIH by

clearing his nominee for NIH chief with leading scientific societies.

And the Association of American Medical Colleges, in a letter to President Ford, urged him to name as the next NIH chief a medical scientist of international stature, with an understanding of biomedical research, and a background in government research administration. They put forward as their nominees Drs. J. Edward Rall, Scientific Director of the National Institute of Arthritis, Metabolism and Digestive Diseases, and Theodore Compton, Deputy Assistant Secretary of Health, HEW.

A.A.M.C. Urges Separate Dept.

In an interview, Dr. John A. D. Cooper, A.A.M.C. president, noted that "The A.A.M.C. has pushed for a separate Department of Health. If we can't get that, then at the very least, the nation's top health officer should be a Deputy Secretary or Under Secretary, instead of Assistant Secretary for Health. That title would raise his status in the hierarchy and place him in a direct relationship with the Secretary [of HEW]."

Dr. Cooper suggested that Dr. Edwards had been "unhappy with the kind of influence he has had in H.E.W. and with the allocations of priorities and funding." N.H.

'Excess' Prescriptions Cut by Data Feedback

Medical Tribune Report

CHICAGO—An information feedback loop in which the physician was given a monthly profile on his drug prescribing habits markedly reduced drug use in a study conducted at the Baltimore City Hospitals.

A drug prescribing index (DPI) was developed to measure usage, Dr. Michael W. Pozzen of Johns Hopkins Hospital told the Association of American Medical Colleges here.

The DPI is essentially a ratio of the quantity of drug prescribed—expressed in "ideal" units determined by the investigator in association with faculty supervised educational program which included discussions of drugs, their indications, contraindications, and means for monitoring drug toxicity.

The third clinic was a traditional

times as much medication was prescribed as would have been appropriate for the interval. Johns Hopkins faculty considered a DPI of up to 1.5 to be reasonable.

During the first month of study, baseline DPIs were calculated for physicians in each of three clinics. Over the next 10 months, the experimental clinic was given a monthly prescribing profile. This report included the DPI for each prescription written and an explanation by the unit administrator.

In the second clinic, the house physicians received an intensive faculty supervised educational program which included discussions of drugs, their indications, contraindications, and means for monitoring drug toxicity.

The third clinic was a traditional

control group receiving no information.

Results showed that house officers in the first clinic quickly leveled off at about 1.4 in prescribing digoxin while the DPI of the other two clinics were 3.2 and 4.1, respectively. Similar results were seen in the data for metoprolol and hydrochlorothiazide, the other two drugs involved in the study.

Special Neurologic Hospital

Medical Tribune World Service

TOKYO—The Tokyo Metropolitan Government will construct a 300-bed hospital in Fuchu to treat subacute myelocystoconspicuity, Behcet's disease, and other intractable neurologic diseases. The hospital is to be completed by March 1977.

wine talk

By JOHN CHAMBERS
Author and Consultant to
Marrell & Company,
New York Wine Merchants

Sherry

Dr. Vicente Arrillaga, a Spanish physician whom I have known since my first visit to that country, passed through New York recently, and we had supper together. As usual, the conversation quickly turned to wine, and he remarked that of all the wines of the world, none has a more complex story than sherry, and yet no wine is taken so much for granted. He's right, of course, and hence this column on sherry.

The area around Jerez, in which sherry is produced, is hot and dry. The grapes ripen quickly and bake in the unrelenting sun, developing high sugar content. The two primary varieties grown around Jerez, the *palomino* and the *pedro ximenez*, have the merit of maintaining good acidity to balance this high sugar content. In Jerez the *palomino* is used for all dry sherries with the juice of the *pedro ximenez* being used as a sweetening agent, whereas in neighboring Montilla, the latter grape is used for both dry and sweet wines.

What Distinguishes Sherry

The key to sherry as we know it is a distinctive method of vinification and aging. Whereas contact with the air is avoided in the making of most wines, in the case of sherry it is sought, for air is needed to encourage the development of the *flor* yeast. As this yeast matures, it forms clusters or *flavours* that gradually coalesce into a thick scum, beneath which the yeast works at its traditional task of converting sugar to alcohol. Only when all the sugar left in the wine after fermentation has been converted, does the yeast settle to the bottom of the cask.

For the next few years the new wine is aged. Then when its quality has been definitely established, it is assigned to a *solera*. A *solera* is physically a stack of several wine casks, connected periodically by tubing, so that when wine is taken from the bottom cask, wine from the cask above will replace it, and so on in turn. It is into the top casks that the new wine will be poured.

The Stamp of the Past

Consequently, when you buy a sherry for a *madra*, (once the same method is used) from a *solera* started in 1910, it means that there is probably an infinitesimal amount of that original sherry of 1910 in the bottle you purchase. However, and this is the key point, that original sherry has stamped the *solera* indelibly with its character, while the new wine added each year has maintained the freshness of the blend. The great complexity and depth of the finished product is the result.

Although sherrylike wines are made in many parts of the world, and many are good (particularly those of South Africa), none has the distinction of Spanish sherry. As Dr. Arrillaga puts it, there is only one Jerez, and that is in Spain!

Sitting pretty for years to come...

Gentle in bringing patients down to normotensive levels, Esidrix will continue to "sit right" with many of the mild hypertensives for whom you prescribe it. Indeed it can mean years and years of even, uneventful control.

Esidrix. It is still unsurpassed as a basic diuretic/anti-hypertensive. And many patients with edema rarely need a more potent diuretic.

Contraindications include anuria. Use cautiously in patients with impaired renal or hepatic function.

Esidrix® (hydrochlorothiazide) for year-after-year control of mild hypertension



Esidrix® (hydrochlorothiazide)

INDICATIONS
Hypertension and edema.
CONTRAINDICATIONS
Anuria, hypersensitivity to this or other sulfonamide-derived drugs. The routine use of diuretics in an otherwise healthy pregnant woman with or without mild edema is contraindicated and possibly hazardous.

WARNINGS
Use with caution in severe renal disease. In patients with renal disease, thiazides may precipitate azotemia. Cumulative effects of the drug may develop in patients with impaired renal function. Thiazides should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte imbalance may precipitate hepatic coma. Thiazides may be additive or potentiative of the action of other antihypertensive drugs. Potential occurs with ganglionic or peripheral adrenergic blocking drugs.

Sensitivity reactions are more likely to occur in patients with a history of allergy or bronchial asthma. The possibility of exacerbation or activation of systemic lupus erythematosus has been reported. **Usage in Pregnancy**
Usage of thiazides in women of childbearing age requires that the potential benefits of the drug be weighed against its possible hazards to the fetus. These hazards include fetal or neonatal jaundice, thrombocytopenia, and possibly other adverse reactions which have occurred in the adult. Nursing Mothers
Thiazides cross the placental barrier and appear in cord blood and breast milk.

PRECAUTIONS

Periodic determination of serum electrolytes to detect possible electrolyte imbalance should be performed at appropriate intervals. Observe patients for clinical signs of fluid or electrolyte imbalance (hypotension, hypochloremic alkalosis, and hypokalemia). Serum and urine electrolyte determinations are particularly important when the patient is vomiting excessively or receiving parenteral fluids. Medication such as digitalis may also influence serum electrolytes. Warning signs are dryness of mouth, thirst, weakness, lethargy, drowsiness, restlessness, muscle pains or cramps, muscular fatigue, hypotension, oliguria, tachycardia, and gastrointestinal disturbances such as nausea or vomiting.

Hypotension may develop with thiazides as with any other potent diuretic, especially during brisk diuresis, when severe circulatory is present, or during concomitant administration of narcotic or ACTH. Interference with adequate renal perfusion of electrolyte may also contribute to hypotension. Thiazides balance especially with reference to myocardial activity.

Any chloride deficit is generally mild and usually does not require specific treatment except under extraordinary circumstances (as in liver disease or renal disease). Chloride hypotension may occur. Thiazides may decrease serum PBI levels without signs of thyroid disturbance.

Transient elevations in plasma calcium may occur in patients receiving thiazides, particularly in those with hyperparathyroidism. Pathological changes in the parathyroid gland have been reported in a few patients on prolonged thiazide therapy.

Hypokalemia may occur or frank hypokalemia may be precipitated in certain patients. Insulin requirements in diabetic patients may be increased, decreased, or unchanged. Latent diabetes may become manifest during thiazide administration. Thiazides may increase the responsiveness to tubocurarine. The antihypertensive effect of the drug may be enhanced in the post-sympathectomy patient. Thiazides may decrease arterial responsiveness to norepinephrine. This is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

It nitrogen retention indicates onset of progressive renal insufficiency, consider withholding or discontinuing diuretic therapy. Thiazides may decrease serum PBI levels without signs of thyroid disturbance.

ADVERSE REACTIONS
Gastric/duodenal—nausea, gastric irritation, nausea, vomiting, anorexia, diarrhea, constipation, jaundice (hepatographic cholestasis), pancreatitis, flatulence, nervous system—dizziness, vertigo, paraesthesia, numbness, weakness, drowsiness, depression, sensitivity—purpura, photosensitivity, rash, urticaria, necrotizing angitis, Stevens-Johnson syndrome, and other hypersensitivity reactions. Hematology—leukopenia, agranulocytosis, thrombocytopenia, aplastic anemia. Cardiovascular—orthostatic hypotension may occur and may be potentiated by alcohol, barbiturates, or narcotics. Other—hyperglycemia, glycosuria, hyperuricemia,

muscle spasm, weakness, restlessness. Whenever adverse reactions are moderate or severe, reduce dosage or withdraw therapy.

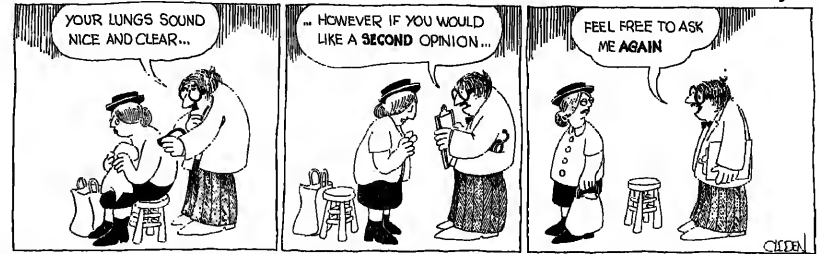
DOSEAGE
Individualize dosage by titrating for maximum therapeutic response at the lowest possible dose. **Hydrochlorothiazide (HCTZ)—Usual dose 75 mg daily. Maintenance—After a week dosage may be adjusted downward to as little as 25 mg daily, or as much as 100 mg daily. Combined therapy—When necessary, other antihypertensives may be added gradually and with caution because of the potentiating effect of this drug. Dosage of ganglionic blockers should be halved.**

Supplies
Maintenance—25 to 100 mg daily or intermittently. Sedative patients may require up to 200 mg daily. **SUPPLIED**
Tablets, 50 mg (yellow, scored), bottles of 50, 60, 100, 1000, 5000 and Ace-Pak blister units of 100, 1000, 25 mg (pink, scored), bottles of 100, 1000 and 5000.

Consult complete literature before prescribing. **CIBA Pharmaceutical Company**
Division of CIBA-GEIGY Corporation
Summit, New Jersey 07901

C I B A

Clinical Trials



by Olden

Blind Swiss Physiotherapist Developed Skiing for Blind

Medical Tribune World Service

GENEVA—A blind physiotherapist can take much of the credit for the fact that skiing has become a sport that can be enjoyed by the blind.

Roger Allemand lost his sight as a result of an accident during military service when he was 21. In 1969 he founded the *Groupe des Skieurs Aveugles* (G.R.S.A.—Organization for Blind Skiers in French Switzerland).

"To begin with I was president, secretary, treasurer—everything in one," he said.

Now his techniques are being studied in other countries, including the United States.

The G.R.S.A. has some 25 blind or partially sighted members and a panel of 50 instructors. With some financial help from the Swiss Government it arranges instruction and runs several group meetings and activities, including an annual camp lasting one week.

Exacting Course for Instructors

All the instructors are certified by the Swiss Ski School and have taken a special two-day course in instructing the blind. According to one newly qualified instructor, the course is "very exacting, requiring great powers of concentration."

The G.R.S.A. method stresses safety. Both pupil and instructor wear special parkas—yellow with a black band for the blind pupil and red with the distinctive badge of the organization on the left sleeve. The instructor keeps about 1 m. behind his pupil and guides him every few seconds with verbal instructions, based to some extent on the principles used in aviation.

"Pierre, forward 10 o'clock" indicates to the skier, who is assumed to be facing 12 o'clock, the direction he must take.

Before he puts on a ski, however, he must undergo some physical preparation. The G.R.S.A. holds an autumn meeting at which all new members receive instructions in this regard and are given a cassette describing simple exercises. During the season they ski on average once a week.

Blind people learn fast, Mr. Alle-

mand said. Not having the distractions of sight, they concentrate their attention on the words of the instructor. Denied the use of their eyes as a balancing aid, they develop a sense of balance that allows them to adapt to the changes in terrain, quality of snow, and other factors.

He demonstrated this for *MEDICAL TRIBUNE* by jumping lightly onto a large beach ball and balancing on it for several minutes.

Mr. Allemand and a 26-year old woman pupil recently made a long descent with their instructors down the Rosa Blanche snowfields. He and an instructor took part in the Nordde ski marathon in the St. Moritz region in 1973, covering 42 km. in five hours.

Mr. Allemand is particularly proud of the fact that since its foundation no member of the G.R.S.A. has had a serious accident.

Neuroleptic Analgesia Is Used in France In Open Heart Surgery With Good Results

Medical Tribune World Service

MEXICO CITY—Good results with neuroleptic analgesia in open heart surgery were reported by a French anesthesiologist in 2,000 patients. Droperidol was used in association with phenoperidine in 1,900 operations and with fentanyl in 100. The combinations were found to be satisfactory in maintaining stability of cardiac output with a lowering of peripheral vascular resistances, and particularly favorable in coronary artery surgery.

Experience in some 8,000 open heart operations at the Faculté Broussais Hôtel Dieu, Université de Paris, was described by Dr. Jean Claude Salamagne, Professor of Anesthesiology, to the First International Congress of Anesthesiology here.

Dr. Salamagne presented preliminary findings of recent work with the administration of a muscle relaxant, pancuronium, prior to induction of analgesia at high dosage. A mild dose of diazepam or thiopental sedation was given before the pancuronium for patient comfort. No definitive conclusions could be presented because of the limited number of cases so far, but the general impression, Dr. Salamagne

said, was that it may be a useful procedure.

High dosages of fentanyl were found to produce persistent deep respiratory depression, lasting three or four hours after the final injection, which required respiratory assistance. This was not considered important, however, since the patient benefits for several hours from the residual sedation.

Drop in Pension Values Protested by WHO Staff

Medical Tribune World Service

GENEVA—The World Health Organization staff, which include about 500 physicians, held a brief stoppage at the headquarters building here in protest over the declining value of their prospective pensions. Officials of the W.H.O. staff association said that pension values have dropped some 30 percent since 1971 as a result of devaluation of the U.S. dollar, and the revaluation of some other currencies, including the Swiss franc.

All professional-grade staff of United Nations organizations in Europe are paid in U.S. dollars.

IMMATERIA MEDICA

By DUDLEY STRAUS

Odds and Ends

● Seekers of a Cause, or Romanian patriots, may be interested in the following letter to the editor of *Lancet*:

"BABES OR PETRI DISH?"

"Sir,—In his first treatise on bacteriology, published in May, 1885, Victor Babes described the use of a low-walled jar for bacteria isolations. In the same year Nicati and Rietsch also mentioned these jars, which they used for the isolation of the cholera vibrio. In 1887 Petri described his use, on a large scale, of this type of low-walled jar, which became known as the Petri-Schalen or Petri dish. Later, Frankel supported Babes's assertion that the credit for the conception and application of this idea should go to Ilieus and not to Petri. It is now too late to try to claim this discovery for Romania!

Stefan S. Nicolai Institute of Virology, 285 Sos. Mihai Bravu, Bucharest, Romania. VINCENT T. BABES."

We confess we were attracted to it by our failure to recognize the correct meaning of "Babes"

● "Anyone in New York on January 17 might be interested in the Scientific Program being presented by the New York Center for Psychoanalytic Training:

"Dr. Benjamin Brody: *The Sexual Meaning of the Axilla (Amplified)*."

● Mephilophobes may be interested to learn that two scientists from the University of New Hampshire have determined that the wrong chemical has been blamed for the offensive odor produced by skunks. (You maybe wondered what a mephil was?)

The guilty ingredients turn out to be crotyl mercaptan, isopropyl mercaptan, and methyl crotyl disulphide, and not innocent and wrongly accused n-butyl mercaptan.

● "WASHINGTON (UPI)—The Agriculture Department today announced a price support program for the 1974 crop of tung nuts, but officials noted quickly that farmers probably will not harvest any tung nuts this year."

And that's the way it goes, these days.